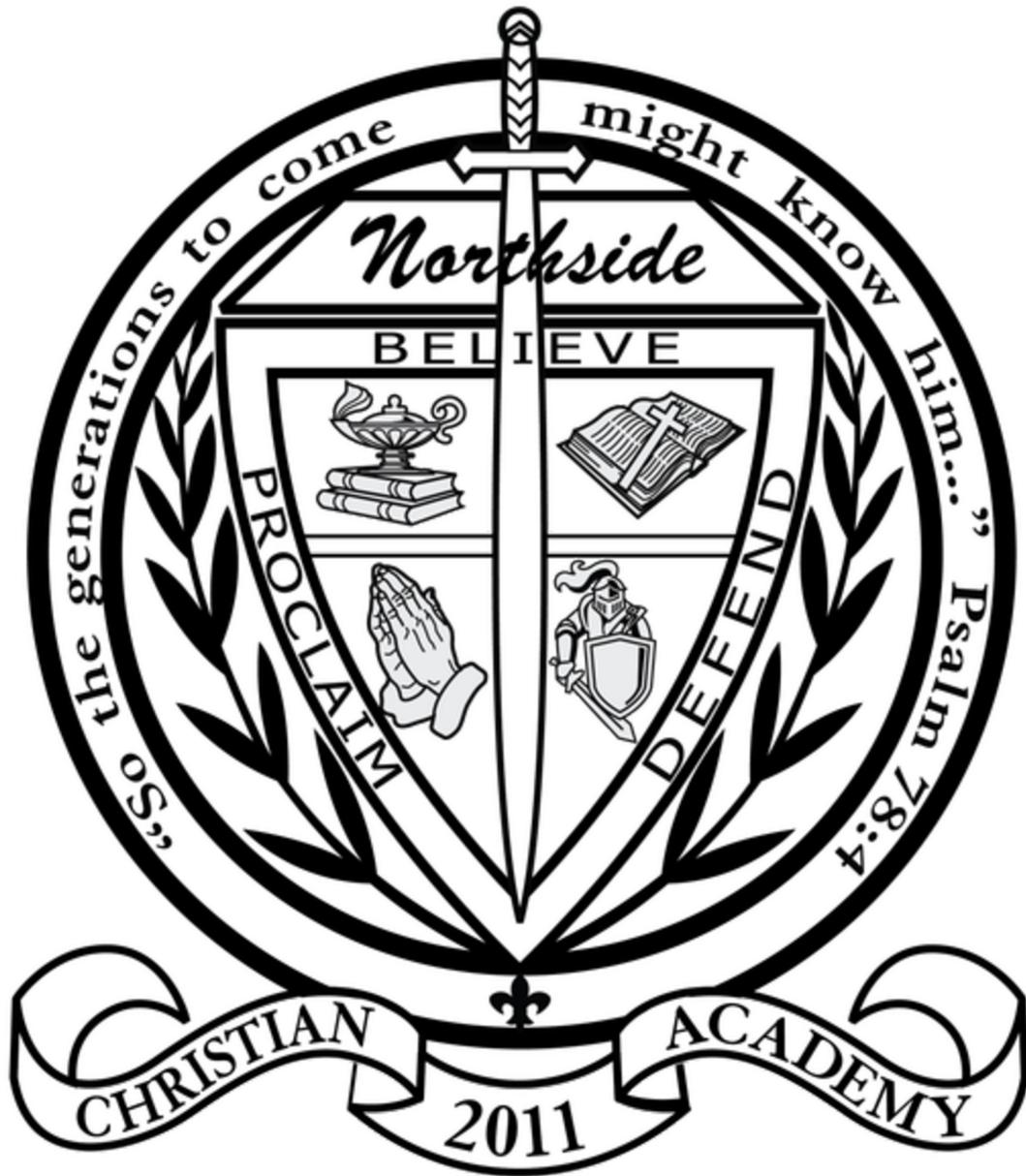


# COURSE CATALOG\_\_\_\_\_



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# 2026-2027

# COURSE CATALOG



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# 2026-2027 GRADUATION REQUIREMENTS

Subject Area	Standard Diploma	Honors+ Diploma	Notes
<b>Bible</b>	4	4	4 or 1 credit per year at NCA
<b>English</b>	4	4/5	
<b>Math</b>	4	4/5	
<b>Science</b>	3	3/4	
<b>Social Studies</b>	3	3	
<b>Physical Education</b>	1	1	
<b>Foreign Language</b>	2	3	
<b>Technology</b>	1	1	
<b>Fine Arts</b>	1	1	
<b>Electives</b>	2*	2*	*Personal Finance Required Class of 2027 and beyond
<b>Spring Term</b>	1	1	1 or .25 for each year at NCA
<b>Spiritual Emphasis Week (SEW)</b>	1	1	1 or .25 for each year at NCA
<b>Community Service</b>	Required every year at NCA	Required every year at NCA	9th = 10 hrs. 11th = 14hrs 10th = 12 hrs 12th = 16hrs

**Total 26      Total 28**

### + Honors Requirements:

- 9 AP or Honors Classes
- 3.9 Weighted GPA
- 3 Foreign Language Credits (in same language)
- 1 Additional Credit in English/Math/Science or a Dual Enrollment credit
- Be in Good Standing

# BIBLICAL FOUNDATION

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All College Prep Classes. Students will earn one credit of Bible per year at NCA.

## **Foundations (9<sup>th</sup>)**

**1.00 Credit**

Prerequisite: None

In Foundations, the first of our four-volume set, we embark on a journey delving into the very essence of Christian belief, updated and meticulously crafted for today's students. Covering the nature and authority of the Bible, the profound narrative woven within its pages, and the core tenets of Christian living, Foundations equips students with a profound understanding of the Bible's metanarrative and its implications for personal and communal life.

## **Apologetics (10<sup>th</sup>)**

**1.00 Credit**

Prerequisite: None

In Apologetics, this second of our four-volume set, we provide guidance for defending and commending the Christian faith to others. It also demonstrates how the Christian worldview stands up to common objections to it in society today.

## **Worldviews (11<sup>th</sup>)**

**1.00 Credit**

Prerequisite: None

In Worldview, this third of our four-volume set, we explore the Christian worldview compared to five other worldviews while examining their answers to life's biggest questions in areas like ethics, history, philosophy, politics, biology, and more. Worldview surveys today's major worldviews of secularism, Marxism, postmodernism, new spirituality, and Islam compared to Christianity.

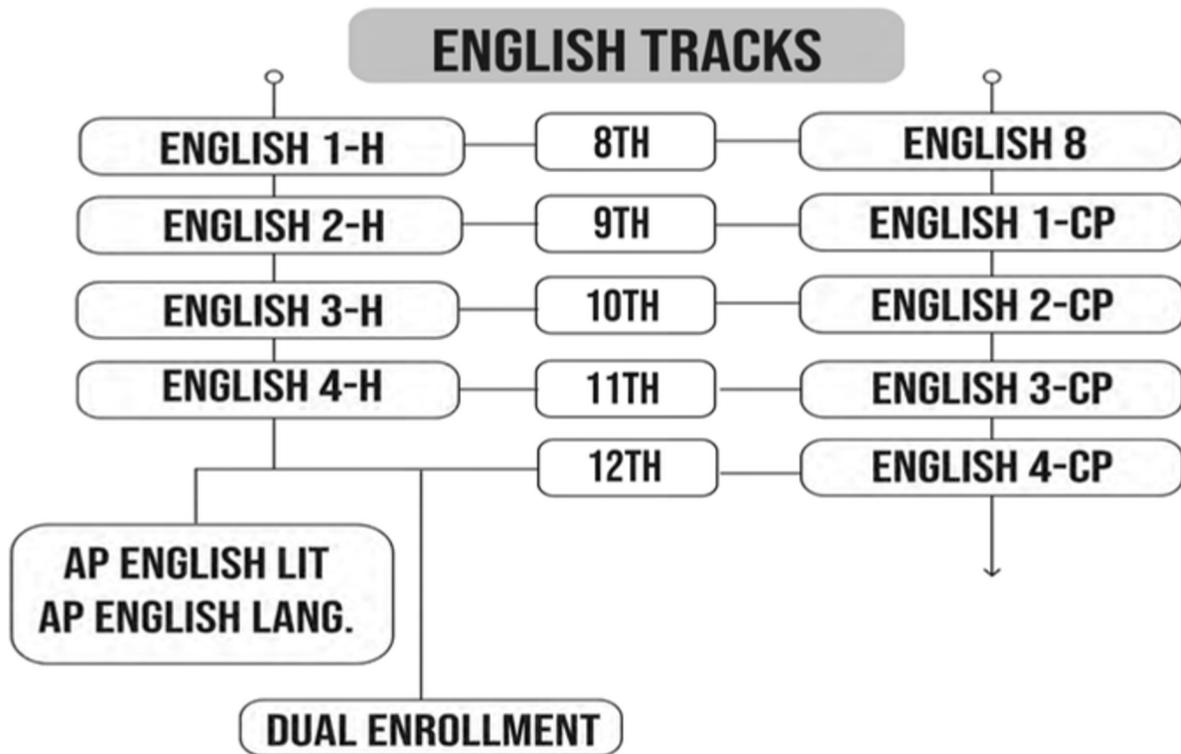
## **Culture (12<sup>th</sup>)**

**1.00 Credit**

Prerequisite: None

In Culture, the fourth of our four-volume set, shows how the Christian worldview has the resources to engage with the most challenging and controversial issues of our day, and it provides a model for faithful Christian engagement with the world. Book four, outlines the key social issues of our time and shows students how a biblical worldview can provide a compassionate, effective witness in culture today.

# ENGLISH LITERATURE



# ENGLISH LITERATURE

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## **English I College Prep**

**1.00 Credit**

Prerequisite: 8th grade English

English I College Prep conveys literature's foundational elements of conflict, character, theme, point of view, structure and tone. Students are also introduced to literary criticism and are encouraged to read and analyze literature in light of a Christian worldview. The literature selections include author biographies, and application questions that promote critical thinking skills. Students will also expand and acquire the usage of new vocabulary and gain an understanding of figurative language, word relationships, and nuances in word meanings through vocabulary workshops. Students will also begin a solid foundation of writing skills, by learning how to effectively use a wide range of structural models and stylistic techniques in compositions, as students write on a variety of fiction and non-fiction topics.

## **English I Honors**

**1.00 Credit**

Prerequisite: 8th grade English

English I Honors conveys literature's foundational elements of conflict, character, theme, point of view, structure and tone. Students are also introduced to literary criticism and are encouraged to read and analyze literature in light of a Christian worldview. The literature selections include author biographies, and application questions that promote critical thinking skills. Students will also expand and acquire the usage of new vocabulary and gain an understanding of figurative language, word relationships, and nuances in word meanings through vocabulary workshops. Literature, as well as everything we do, will be rooted in scriptural applications. In writing, students will conduct research, create original compositions, develop a five-paragraph essay, and learn to write critiques. Students will also gain exposure to advanced elements of grammar, as well as high level vocabulary usage. Overall, this course builds upon previously learned concepts, while also providing new experiences with advanced language in order to build a solid foundation for high school success, and beyond. Additional objectives for English I Honors include reading additional long novels or dramas throughout the year, learning to analyze these works in a deeper fashion and creating projects on these works analyzing either literary elements or authorial world views.

## **English II College Prep**

**1.00 Credit**

Prerequisite: English I

English II College Prep broadens students' understanding of literature by focusing on advanced literary concepts. Students will learn the method and the importance of literary analysis by studying pieces from several genres and interpreting them in light of biblical truth. Students will expand critical thinking skills as key to understanding and appreciating literature. In addition, each unit relates the unit's topic with the visual arts. Students will advance in the usage of new vocabulary progressing in an understanding of figurative language, word relationships, and nuances in word meanings through the Vocabulary Workshop curriculum. Students will also continue to build upon the skills learned in English I, writing a variety of fiction and non-fiction compositions with a wide range of structural models and stylistic techniques.

# ENGLISH LITERATURE

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## **English II Honors**

**1.00 Credit**

Prerequisite: English I Honors

English II Honors broadens students' understanding of literature by focusing on advanced literary concepts. Students will learn the method and the importance of literary analysis by studying pieces from several genres and interpreting them in light of biblical truth. Students will expand critical thinking skills as key to understanding and appreciating literature. In addition, each unit relates the unit's topic with the visual arts. Students will advance in the usage of new vocabulary progressing in an understanding of figurative language, word relationships, and nuances in word meanings through the Vocabulary Workshop curriculum. Students will also continue to build upon the skills learned in English I, writing a variety of fiction and non-fiction compositions with a wide range of structural models and stylistic techniques. Additional objectives for English II Honors include reading additional long novels or dramas throughout the year, learning to analyze these works in a deeper fashion and creating projects on these works analyzing either literary elements or authorial worldviews.

## **English III College Prep**

**1.00 Credit**

Prerequisite: English I

English III College Prep introduces students to more than seventy authors in a study that connects the authors' lives and beliefs as revealed in their writings with the corresponding literary periods. Lessons examine Colonial-Revolutionary, Romantic, Realistic/Naturalistic, Modern, and Contemporary literature, as well as issues and ideas relevant to America today. The curriculum includes introductory essays about the cultural and historical events that affect each literary period, biographical essays for each author, and discussions for each author's body of included work. Students will continue to increase writing skills piece by piece. Students will analyze the entire essay-building process and practice forming important components of essays, such as, captivating introductions, compelling descriptions, and convincing conclusions. Students will learn how to bring their words and arguments to life.

## **English III Honors**

**1.00 Credit**

Prerequisite: English II Honors

English III Honors introduces students to more than seventy authors in a study that connects the authors' lives and beliefs as revealed in their writings with the corresponding literary periods. Lessons examine Colonial-Revolutionary, Romantic, Realistic/Naturalistic, Modern, and Contemporary literature, as well as issues and ideas relevant to America today. The curriculum includes introductory essays about the cultural and historical events that affect each literary period, biographical essays for each author, and discussions for each author's body of included work. Students will continue to increase writing skills piece by piece. Students will analyze the entire essay-building process and practice forming important components of essays, such as, captivating introductions, compelling descriptions, and convincing conclusions. Students will learn how to bring their words and arguments to life. Additional objectives for English III Honors include reading additional long novels or dramas throughout the year, learning to analyze these works in a deeper fashion and creating projects on these works analyzing either literary elements or authorial worldviews.

# ENGLISH LITERATURE

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## **English IV College Prep**

**1.00 Credit**

Prerequisite: English 3

English IV College Prep discusses literature selections and cultural issues from eight literary periods in light of Scripture: Old English, Middle English, Tudor, Stuart, Neoclassical, Romantic, Victorian, and Modern. Students will trace British English with a Christian perspective from its beginning to the present and study the Shakespearean drama entitled Macbeth. Students will develop essays and write research papers in preparation for college. Students will progress with the writing skills acquired in English III Honors by continuing to understand how to bring their words and arguments to life through writing.

## **English IV Honors**

**1.00 Credit**

Prerequisite: English 3 Honors

English IV Honors discusses literature selections and cultural issues from eight literary periods in light of Scripture: Old English, trace British English with a Christian perspective from its beginning to the present and study Middle English, Tudor, Stuart, Neoclassical, Romantic, Victorian, and Modern. Students will the Shakespearean drama entitled Macbeth. Students will develop essays and write research papers in preparation for college. Students will progress with the writing skills acquired in English III Honors by continuing to understand how to bring their words and arguments to life through writing. Additional objectives for English IV Honors include reading additional long novels or dramas throughout the year, learning to analyze these works in a deeper fashion and creating projects on these works analyzing either literary elements or authorial worldviews.

## **English Literature and Research**

**1.00 Credit**

***Dual Enrollment through CIU \*Offered on-campus at NCA***

Prerequisite: Completion of 10th grade, English I Composition and Research or AP English language

This is a college level course designed to strengthen your critical thinking, reading, and writing skills-an important preparation for meeting the academic challenges of your educational career as well as for learning to participate in the world of ideas. This course serves as an introduction to the appreciation and analysis of literature in three genres: short fiction, poetry, and drama. (1.00 high school credits, 3.00 college credits, additional fees)

## **English Composition and Research**

**1.00 Credit**

***Dual Enrollment through CIU. \* Offered on-campus at NCA***

Prerequisite: Completion of 10th grade

This is a college level course designed to provide students with an introduction to reaching well- seasoned conclusions based upon the most credible evidence available, skills fundamental to college writing but also for life a an adult. You will develop your abilities with modern academic resources as evidenced through an annotative biography, among other assignments. You will spend the majority of the course drafting and revising papers which demonstrate the effective use of secondary resources (1.0 high school credit, .00 college credits, additional fees)

# FOREIGN LANGUAGE

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## **Spanish I College Prep**

**1.00 Credit**

Prerequisite: 10th grade

Spanish I is the first year of study in Spanish for beginning-level students. This course is designed to develop a foundational level of proficiency as defined by the proficiency guidelines of the American Council on the Teaching of Foreign Languages. Each lesson includes a Diálogo (dialogue) or Lectura (reading passage), a useful tool to reinforce vocabulary and grammar points. Most lessons contain vocabulary introductions. New words appear after the reading selections so that the students may familiarize themselves early on with the vocabulary they will be using in the lesson and practice exercises. Each lesson presents several grammatical structures. The presentations are arranged in logical sequences that allow the students to build upon a balanced foundation. Each new structure is followed by several reinforcement exercises called Actividades (activities). Spanish I for Christian Schools emphasizes missions, the learning of Bible verses in Spanish, and vocabulary for witnessing in Spanish. Teaching students to become Christ like and to communicate in Spanish is the main goal of this text.

## **Spanish II College Prep**

**1.00 Credit**

Prerequisite: Spanish I

Spanish II is the second year of study in Spanish for secondary-level students. This course is designed to develop an 'intermediate-low' to 'intermediate-mid' level of proficiency as defined by the proficiency guidelines of the American Council on the Teaching of Foreign Languages. It is designed to align with the five Cs of the national standards in foreign language education: communication, culture, connections, comparisons, and communities. The main thrust of this text is to teach the student to reach out to Hispanics with the gospel of Christ. In learning the Hispanic culture and customs, the student will communicate more effectively in the Hispanic community. This course is not designed for students to go onto Spanish 3 honors.

## **Spanish II Honors**

**1.00 Credit**

Prerequisite: Spanish I

Spanish II Honors is the second year of study in Spanish for secondary-level students who excelled in Spanish I. This course is designed to develop an 'intermediate-mid' level of proficiency as defined by the proficiency guidelines of the American Council on the Teaching of Foreign Languages. It is designed to align with the five Cs of the national standards in foreign language education: communication, culture, connections, comparisons, and communities. The main thrust of this text is to teach the student to reach out to Hispanics with the gospel of Christ. In learning the Hispanic culture and customs, the student will communicate more effectively in the Hispanic community. This course is designed for students to go onto Spanish 3 honors.

## **Spanish III Honors**

**1.00 Credit**

Prerequisite: Spanish II

Spanish III Honors is the third year of study in Spanish for secondary-level students who excelled in Spanish II and choose to pursue a third year. This course is designed to develop an 'intermediate-high' to 'advanced-low' level of proficiency as defined by the proficiency guidelines of the American Council on the Teaching of Foreign Languages. It is designed to align with the five Cs of the national standards in foreign language education: communication, culture, connections, comparisons, and communities. The main thrust of this text is to teach the student to reach out to Hispanics with the gospel of Christ. In learning the Hispanic culture and customs, the student will communicate more effectively in the Hispanic community.

## **FOREIGN LANGUAGE**

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### **American Sign Language I College Prep**

**1.00 Credit**

Prerequisite: 10th grade

This course is to teach students ASL I and understand deaf culture along with using sign language to communicate effectively with Deaf people. Students must participate using ASL without using voice and be able to use their eyes for reception of sign language in the classroom. They are required to use sign language in the classroom with the teacher and classmates. This is vital, especially when it comes to communication with the Deaf community.

### **American Sign Language II College Prep**

**1.00 Credit**

Prerequisite: ASL I

This course will continue the process of learning ASL. The second year course is designed to emphasize on receptive language skills, including instruction of grammatical structures of ASL. Expressive language skills will be developed as students acquire receptive language skills. Because ASL is a visual gestural language, it is necessary for the learner to master nonverbal communication skills along with expressive /receptive signing skills. While vocabulary knowledge is a paramount for any foreign language, the ability to understand the various aspects of a visual language is essential for mastering that language. Therefore, the emphasis of this course will be on receptive skills more than on expressive skills, as receptive skills are more difficult to learn.

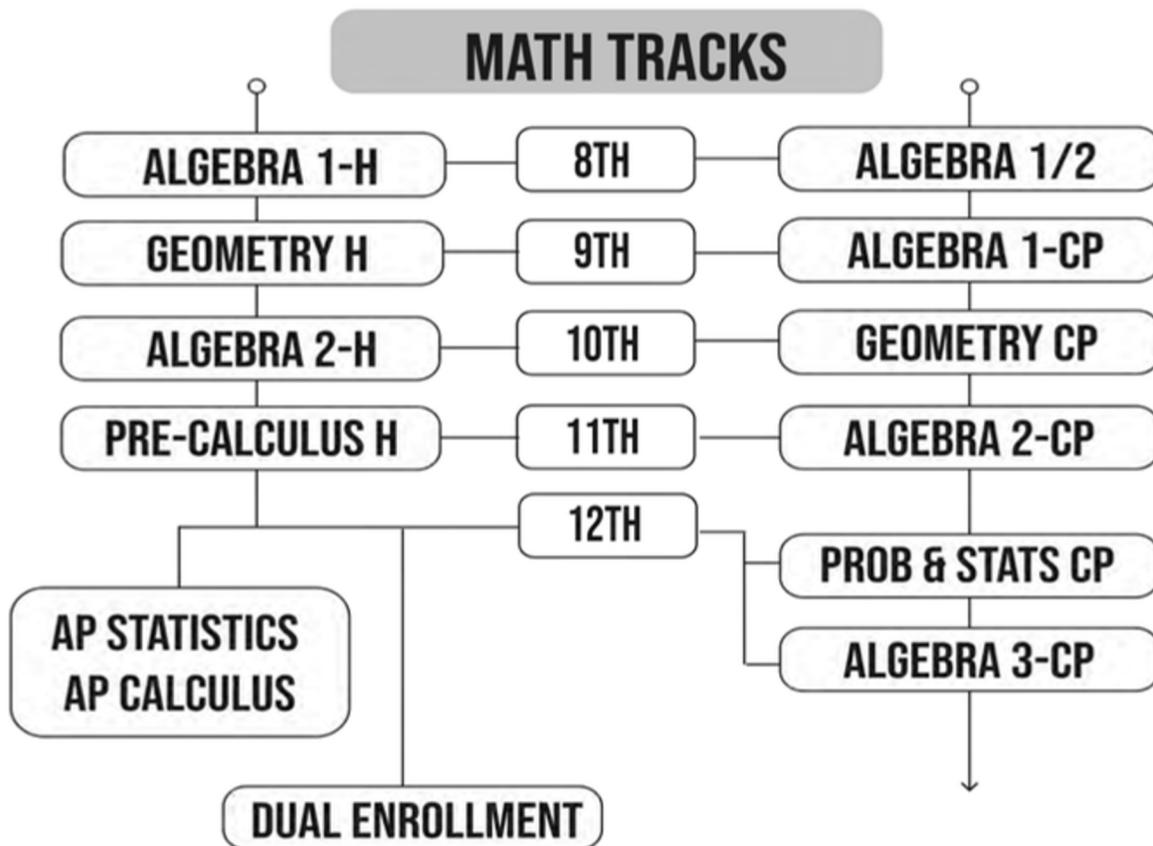
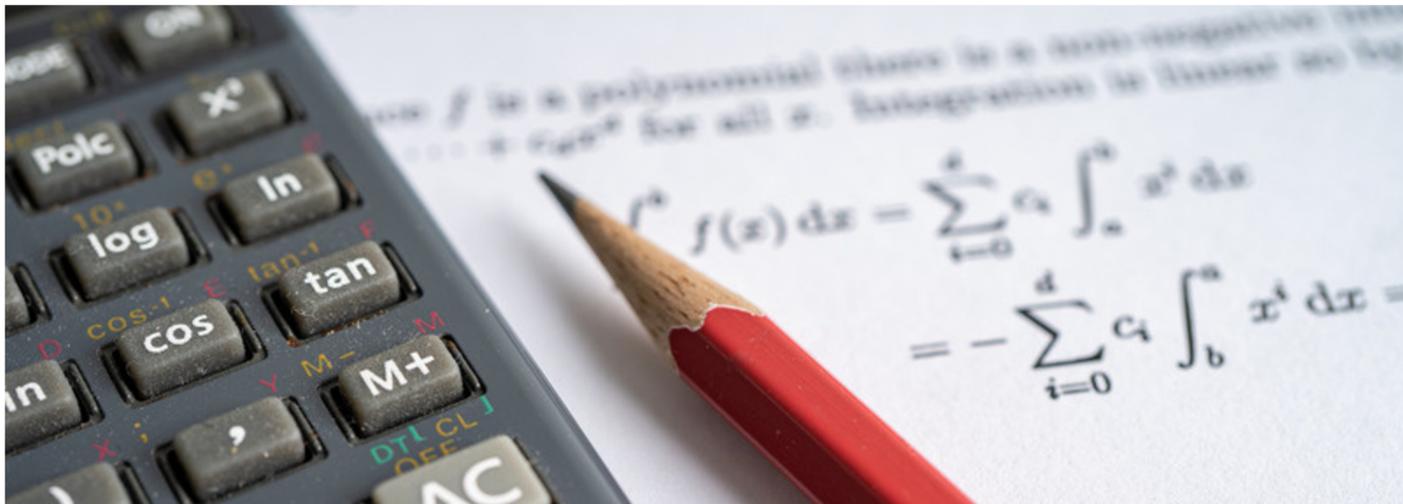
### **American Sign Language III College Prep**

**1.00 Credit**

Prerequisite: ASL II

This advanced course in American Sign Language is designed for students who have mastered basic ASL vocabulary and grammar structures. In ASL 3, students will continue to refine their skills in conversational sign language, focusing on more complex sentence structures, nuanced expressions, and increased fluency in interactive communication. Emphasis will be placed on understanding cultural and social aspects of the Deaf community, as well as expanding students' ability to interpret and participate in discussions involving a variety of topics such as current events, religious contexts, and personal experiences. Through immersive lessons, role-playing activities, and real-world practice, students will develop both their receptive and expressive signing abilities. Additionally, students will explore how ASL functions within a Christian context, learning to sign basic biblical terms and scripture passages. This course aims to prepare students to use ASL in both social and professional environments while fostering empathy and respect for the Deaf community.

# MATHEMATICS



# MATHEMATICS

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## **Algebra I College Prep**

**1.00 Credit**

Prerequisite: Algebra ½ or 8th grade Math

Secondary Mathematics education has 3 main goals: (1) learning about the mind of God by discovering the order that He has richly and graciously imposed on His world, (2) the instruction of mechanics in solving problems that could arise in real world situations at home and at work, and (3) the development of problem solving, logic, and critical and creative thinking skills. Understanding math - in connection with the other disciplines - enables students to understand how-to live-in God's world. As we learn more about the vast and infinite qualities of God's mind, His majesty and power are put into greater perspective.

This course provides a contemporary curriculum that is accessible to a wide range of students.

Classroom-tested for effectiveness, this text contains carefully developed exercise sets with abundant practice skills and real-life applications. Activities also cover technology use, concept explorations, and critical thinking exercises. Students earn one credit for this course. Students must have a grasp of arithmetic in order to successfully navigate Algebra. Specifically, students should be able to add, subtract, multiply, and divide rational numbers. Tutoring is available for students who wish to hone arithmetic skills or to have further practice in topics covered in class. College prep students will focus on establishing foundational basic skills and application techniques.

## **Algebra I Honors**

**1.00 Credit**

Prerequisite: Teacher Recommendation

Secondary Mathematics education has 3 main goals: (1) learning about the mind of God by discovering the order that He has richly and graciously imposed on His world, (2) the instruction of mechanics in solving problems that could arise in real world situations at home

and at work, and (3) the development of problem solving, logic, and critical and creative thinking skills.

Understanding math - in connection with the other disciplines - enables students to understand how-to live-in God's world. As we learn more about the vast and infinite qualities of God's mind, His majesty and power are put into greater perspective.

This course provides a contemporary curriculum that is accessible to a wide range of students.

Classroom-tested for effectiveness, this text contains carefully developed exercise sets with abundant practice skills and real-life applications. Activities also cover technology use, concept explorations, and critical thinking exercises. Students earn one credit for this course. Students must have a grasp of arithmetic in order to successfully navigate Algebra. Specifically, students should be able to add, subtract, multiply, and divide rational numbers. Tutoring is available for students who wish to hone arithmetic skills or to have further practice in topics covered in class. Honors students will focus on basic skills and techniques while also using higher level thought and critical thinking skills to solve complex and advanced problems and discover for themselves in independent study.

# MATHEMATICS

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## **Geometry College Prep**

**1.00 Credit**

Prerequisite: Algebra I

This is a one-year course to develop and practice problem-solving skills using inductive and deductive reasoning. Through the study of Geometry, students will develop proficiency in using mathematics to solve problems in everyday life. The goal is for students to expand their understanding of mathematical concepts while improving their logic skills. Students will gain an understanding of geometry as a study of the mathematical relationships of objects in God's world around us.

## **Geometry Honors**

**1.00 Credit**

Prerequisite: Algebra I Honors

This is a one-year course to develop and practice problem-solving skills using inductive and deductive reasoning. Through the study of Geometry, students will develop proficiency in using mathematics to solve problems in everyday life. The goal is for students to expand their understanding of mathematical concepts while improving their logic skills. Students will gain an understanding of geometry as a study of the mathematical relationships of objects in God's world around us. Honor students will focus on basic skills and techniques while also using higher level thought and critical thinking skills to solve complex and advanced problems and discover for themselves in independent study.

## **Algebra II College Prep**

**1.00 Credit**

Prerequisite: Geometry

This course continues the development of concepts and skills from Algebra I. Students will use equations, inequalities, complex numbers and polynomials to solve problems. Additional topics include conic sections, quadratic functions, exponential functions, logarithmic functions, and rational functions. Students will become proficient in the graphing and interpretation of parent functions. In addition, right triangle trigonometry will be reviewed in preparation for pre-calculus next year. College prep students will focus on establishing foundational basic skills and application techniques.

## **Algebra II Honors**

**1.00 Credit**

Prerequisite: Geometry Honors

This course continues the development of concepts and skills from Algebra I. Students will use equations, inequalities, complex numbers and polynomials to solve problems. Additional topics include conic sections, quadratic functions, exponential functions, logarithmic functions, and rational functions. Students will become proficient in the graphing and interpretation of parent functions. In addition, right triangle trigonometry will be reviewed in preparation for pre-calculus next year.

Honors students will focus on basic skills and techniques while also using higher level thought and critical thinking skills to solve complex and advanced problems and discover for themselves in independent study.

# MATHEMATICS

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## **Algebra III College Prep**

**1.00 Credit**

Prerequisite: Algebra 2 and Geometry

In this course you will be challenged to use all that you learned in Algebra 2 and Geometry to prepare for further mathematics courses. You will learn to collect, organize, display and analyze data in an introduction to statistics. You will also learn basic probability rules and counting techniques to model and solve application problems. Other topics to be studied are sequences and series, along with conic sections and matrices. Finally, our class will strengthen its understanding of functions, drawing on prior algebra knowledge to review polynomial, rational, exponential, logarithmic and trigonometric functions. Understanding how different branches of mathematics are tied together in useful and interesting ways will reinforce the knowledge that God is indeed the greatest mathematician.

## **Probability and Statistics College Prep**

**1.00 Credit**

Prerequisite: Algebra 2

This course is designed for each student to master a wide variety of skills in the domain of statistics that will provide the foundation for college-level mathematics. Math and science at their core are academic and practical ways of describing and understanding God's creation, and statistics skills are important for a wide variety of college majors. This course will build your academic skills, help you learn to employ technology to enhance your own learning, and open your eyes to the complexity of the creation. Statistics regularly introduces new concepts that you may not have ever encountered before.

## **Pre-Calculus Honors**

**1.00 Credit**

Prerequisite: Algebra 2 Honors

Pre-Calculus Honors students will apply and expand their knowledge of Algebra and Geometry in the study of conic and parametric equations, Transcendental Functions, vectors, statistics, Sequences, and Series to culminate in the exploration of Limits and the Derivative. This knowledge will allow students to delve into the richness of God's creation by connecting to advanced topics in Physical, Life, and Social Sciences such as electricity, hypothesis testing, nutrition, and architecture. Students will earn one credit for this course. Students must be strong in Algebra in order to be successful in Pre-calculus. Specifically, students should be able to work with binomial operations over the real set, solve polynomial equations up to the 2nd degree, recognize trigonometric functions, and utilize a graphing calculator. Honors students will use higher-level thinking and strategies to solve more complex and advanced problems, allowing the student to make discoveries for themselves in independent study. Tutoring is available for students who wish to hone skills or to have further practice in topics covered in class.

# **MATHEMATICS**

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## **Calculus Honors**

**1.00 Credit**

Prerequisite: Teacher Recommendation and Pre- Calculus

Calculus Honors students will be challenged to use all knowledge learned in Algebra 2 and Pre- calculus to gain a working knowledge of differentials. A study of exponential and logarithmic functions is included. Other topics of study include trigonometric identities, formulas and graphs, basic integration, and applications of the derivative and the definite integral. Students will also strengthen graphing calculator skills.

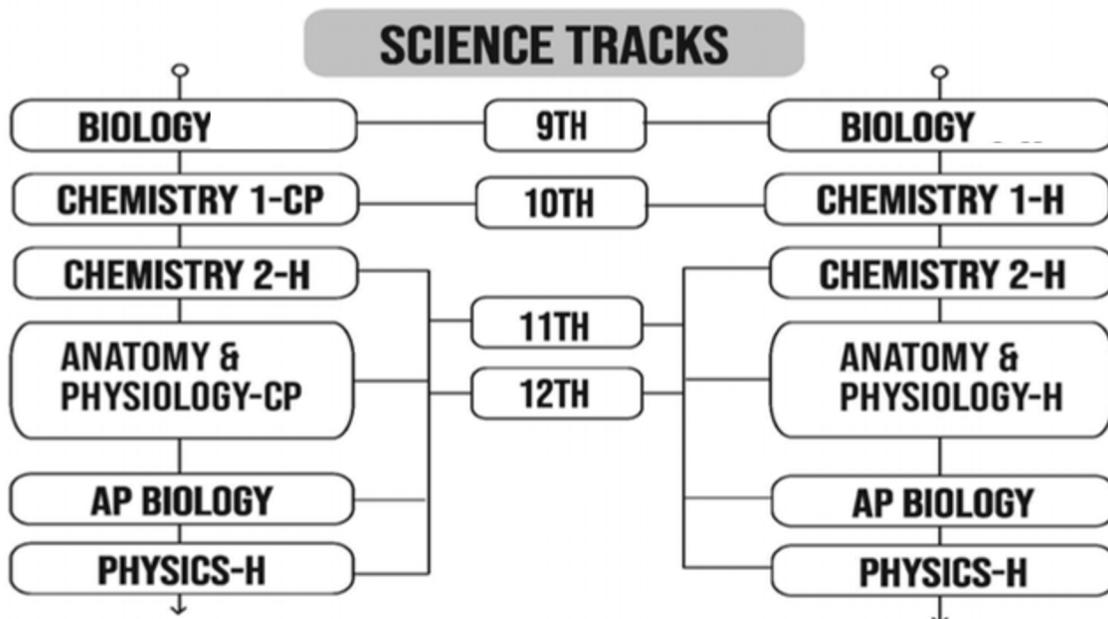
## **Intro to Engineering**

**0.50 Credit**

Prerequisite: Geometry and Algebra I

Introduction to Engineering is geared towards students who are interested in design and engineering. The major focus of the course is to investigate the idea that the earth and all "it contains is a realm that God intends for" humans to properly steward and govern. This is accomplished by exposing students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. Students will be given the opportunity to develop skills and understanding of course concepts through hands-on, or project - based learning. With successful completion of this course, students will have a basic understanding of how engineers create and test new products through the design process.

# SCIENCE



## SCIENCE

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### **Biology College Prep**

**1.00 Credit**

Prerequisite: None

Biology I Honors is the study of living things. Students begin by defining science and learning why a true knowledge of God is central in the study of life. After an introduction to basic biochemistry, students will study the cell, the basic unit of life. Next students will study genetics, the study of heredity, which will lead into an exploration of biotechnology. Next, students will discuss the basic tenets of biological evolution and why biblical creationism best explains all aspects of life. Then, a study of organism classification will precede an in-depth look at each of the five kingdoms: Monera (bacteria), Protista (single-celled organisms that do not fit in any other kingdom), Fungi, Plantae, and Animalia. At the end of the year, students will explore human anatomy and physiology.

### **Biology Honors**

**1.00 Credit**

Prerequisite: Teacher Recommendation

Biology I Honors is the study of living things. Students begin by defining science and learning why a true knowledge of God is central in the study of life. After an introduction to basic biochemistry, students will study the cell, the basic unit of life. Next students will study genetics, the study of heredity, which will lead into an exploration of biotechnology. Next, students will discuss the basic tenets of biological evolution and why biblical creationism best explains all aspects of life. Then, a study of organism classification will precede an in-depth look at each of the five kingdoms: Monera (bacteria), Protista (single-celled organisms that do not fit in any other kingdom), Fungi, Plantae, and Animalia. At the end of the year, students will explore human anatomy and physiology. Honor Biology students are expected to demonstrate a deeper understanding or knowledge of the concepts and skills of biology. This will be reflected in more complex assignments and more thought-provoking assessment than those at the college prep level.

### **Anatomy & Physiology College Prep**

**1.00 Credit**

Prerequisite: Biology and Chemistry I

Anatomy and Physiology is the study of the anatomy and physiology of the human body. In this course, students will learn the 11 major systems that make up the body. Students will learn about cellular biology, genetics, taxonomy, microbiology, botany, zoology, and human anatomy. The efficiency with which each system works, and the seamless integration of one system with the others represents a feat of engineering that will never be matched by modern technology. When students study topics such as Creation and evolution, human cloning, abortion, and stem cell research, students are pointed to Scripture as the ultimate authority and are encouraged to develop a biblical perspective about these topics.

## SCIENCE

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### **Anatomy & Physiology Honors**

**1.00 Credit**

Prerequisite: Biology and Chemistry I

Anatomy and Physiology Honors is the study of the anatomy and physiology of the human body. In this course, students will learn the 11 major systems that make up the body. Students will learn about cellular biology, genetics, taxonomy, microbiology, botany, zoology, and human anatomy. The efficiency with which each system works, and the seamless integration of one system with the others represents a feat of engineering that will never be matched by modern technology. When students study topics such as Creation and evolution, human cloning, abortion, and stem cell research, students are pointed to Scripture as the ultimate authority and are encouraged to develop a biblical perspective about these topics. Throughout the year students will be reading a novel by Philip Yancey called *Fearfully and Wonderfully Made*, which will give students greater depth of insight and appreciation for this glorious truth.

### **Chemistry I College Prep**

**1.00 Credit**

Prerequisite: Biology

Chemistry I College Prep presents recent chemistry-related research, developments, and relevant dominion science problems with stimulating discussions. Students will study about the makeup of matter, the design of atoms, the periodic table, molecular bonds, formulas, reactions, solutions, acids, and bases and several specialized branches of chemistry. Students will be required to use mathematical skills acquired in Algebra in order to solve problems in Chemistry. Students will not only gain knowledge in all the major areas and innovative developments involving chemistry, but will also be inspired to see the process, relevancy, and usefulness of science in the area of chemistry. Students will build their knowledge of chemistry concepts and learn to appreciate how God has given humans the ability to use science to serve others.

### **Chemistry I Honors**

**1.00 Credit**

Prerequisite: Biology

Chemistry I Honors presents recent chemistry-related research, developments, and relevant dominion science problems with stimulating discussions. Students will study about the makeup of matter, the design of atoms, the periodic table, molecular bonds, formulas, reactions, solutions, acids, and bases and several specialized branches of chemistry. Students will be required to use mathematical skills acquired in Algebra in order to solve problems in Chemistry. Students will not only gain knowledge in all the major areas and innovative developments involving chemistry, but will also be inspired to see the process, relevancy, and usefulness of science in the area of chemistry. Students will build their knowledge of chemistry concepts and learn to appreciate how God has given humans the ability to use science to serve others. Honor Chemistry students are expected to demonstrate a deeper understanding or knowledge of the concepts and skills of chemistry. This will be reflected in more complex assignments and more thought-provoking assessment than those at the college prep level.

## SCIENCE

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### **Chemistry II Honors**

**1.00 Credit**

Prerequisite: Chemistry I honors

Chemistry II is an advanced course that looks at many concepts in physical and organic chemistry. This course will reiterate the basics of Chemistry and continue more in-depth studies. This course will cover stoichiometry, bonding, chemical reaction, thermodynamics, chemical kinetics, chemical equilibrium, oxidation-reduction, organic chemistry, and nuclear chemistry. Students will have the opportunity to study the intricate complexity of orbital models to the tremendous energy released by an atomic explosion by developing critical thinking skills. Students will need to have knowledge in the foundations of Chemistry I and have basic mathematical skills in Algebra in order to advance scientific reasoning and logic. Students will be inspired to see the process, relevancy, and usefulness of chemistry from a distinctly Christian perspective. Honor Chemistry students are expected to demonstrate a deeper understanding or knowledge of the concepts and skills of chemistry. This will be reflected in more complex assignments and more thought-provoking assessment than those at the college prep level.

### **Physics Honors**

**1.00 Credit**

Prerequisite: Biology and Chemistry Honors

Physics Honors is designed to guide students in an excursion into the world of Classical Physics – forces, movement, mechanics, energy, electricity, magnetism, and optics. Topics of relativity, quantum mechanics, and nuclear physics are also introduced. Besides learning physics content, students will learn to solve problems by applying physics principles.

Students will use a logical problem-solving approach with many examples and diagrams. The level of math skills needed progresses with the level of content and are derived from skills that are more basic. Students will be prompted to see how science is the best way to understand, exercise dominion over God's creation, and gain a deeper understanding of the mathematical relationships found in physics.

### **Environmental Science**

**0.50 Credit**

Prerequisite: None

Environmental Science includes: biotic and abiotic factors in habitats, ecosystems, and biomes; interrelationships among resources and an environmental system; sources and flow of energy through an environmental system; relationship between carrying capacity and changes in populations and ecosystems; and changes in environments. This is not a lab science.

### **Marine Biology**

**0.50 Credit**

Prerequisite: None

Marine Biology will primarily focus on God's creation of the ocean and its ecosystems.

Specifically, in Marine Biology, we will investigate how the ocean provides the perfect environmental and chemical stability for many species, including producers, invertebrates and Chordata. We will also analyze various coastal ecosystems and how human's impact those ecosystems on a daily basis. We will spend time in the lab dissecting squids and also completing various activities that simulate oil spills and other environmental disasters in our oceans. This is a fun and engaging course that will provide you a broad survey of Marine Biology. This is not a lab science.

# SOCIAL STUDIES

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## **American Government College Prep**

**0.50 Credit**

Prerequisite: US History

American Government will guide students to gain a conservative, Christian perspective while understanding that human government enables a nation to build and effectively maintain society according to God's principles. Students will examine the fascinating study of the Constitution, the government it established, and the rights and privileges it guarantees the American people. After studying the Constitution and the national government, students learn about federalism and government at the state and local levels.

Students will build a firm foundation to become informed, responsible citizens and voters in today's world. Students will learn how to exercise their reasoning abilities by discussing important concepts and give reasons for their beliefs. Note: State and Local Government is designed to accompany American Government as a study outline for students to fill in with information about their own state, county, and locality.

## **Economics College Prep**

**0.50 Credit**

Prerequisite: US History

This course focuses on work and prosperity and is set apart by its emphasis on free enterprise capitalism in a free market economy. After learning the biblical views of work, wealth, and stewardship, students can understand the proper economic roles of individual producers and consumers, as well as the role of the government from a conservative, Christian perspective. The stark contrast between the market economy—the cornerstone of prosperity in the United States—and the command economy—the hallmark of fiscal failure in Communist and Socialist countries—is graphically presented. Essential concepts such as competition in the marketplace and private ownership of capital are discussed from a conservative perspective. Students will learn to appreciate the free enterprise system for its acceptance of the individual's God-given freedom to choose and his accountability to God.

## **United States History College Prep**

**1.00 Credit**

Prerequisite: History credit

United States History will prompt students to study the ten eras listed in the National Standards for United States History. Students will expand their understanding of the exploration and colonization eras, post-Civil War development of industry and the emergence of "modern" America in the late nineteenth century, the post-World War II era, and the contemporary United States. Students will define and use basic terms from U.S. history, interpret historical maps, evaluate historical narratives and original documents, interpret common tools of historians, such as timelines, graphs, and charts. Within a biblical worldview, students will gain understanding and discernment of God's providence in any era by discovering the forces, issues, and events that have shaped the United States history and the people who made it happen. All juniors will have the opportunity to travel to Washington, D.C. to enrich their learning about American History.

## **SOCIAL STUDIES**

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### **World History College Prep**

**1.00 Credit**

Prerequisite: Cultural Geography

This course is based on the conviction that God is the Creator of the universe and the Controller of history. Because the focal point of history is the birth of Christ, World History takes the view that all history is either pointing toward the birth of Christ or looking back to it. Students study how God used events before the birth of Christ to prepare the world for His coming. Then, after His birth, they trace the impact of Christianity on the events of world history. This course helps students see the sovereign hand of God in history, as well as the consequences of man's choices. The Providence of God has guided history for His glory. Yet, each person is free to choose whether or obey God and be used by Him or to disobey and suffer the consequences. This world history also illustrates the truth of Proverbs 14:34, "Righteousness exalted a nation, but sin is a reproach to any people."

### **History of the Holocaust College Prep**

**0.50 Credit**

Prerequisite: Cultural Geography

The History of the Holocaust will address the topic for those interested in learning about the horrors faced by the Jews in the mid-20th century. Students will dig into the period to gain a better understanding of those involved in various capabilities. The class will feature readings, research and using primary and secondary sources, as well as film and interviews to immerse themselves in what others experienced. We'll study the history of anti-Semitism; the rise of the Nazis, and the Holocaust itself, from the beginnings through liberation by the Allies, to its aftermath. With this semester sources, students will better understand the result of prejudice, apathy, and indifference, the possibility of government supported terror, as well as viewing glimpses of empathy and humanity. Summarily, we'll discover the who, what, when, where, and how, but also ask the most important questions, why, and where was God in the midst of this? Was He there, did He care? Did He have a broader purpose? This counts as an elective or social studies course.

### **Cold War History College Prep**

**0.50 Credit**

Prerequisite: Cultural Geography

This course will examine the origins of the Cold War and focus on the political, economic, social, military and cultural effects on the United States, the Soviet Union and the globe. Emphasis will focus on the conflicts and events under the umbrella of the Cold War, which shaped the world and still resonates in the 21st Century. This includes the Russian Revolution, allied relations in WWII, the Berlin Airlift, the Korean war, the nuclear policy, Cuba, the Berlin Wall, Vietnam, the Reagan years, the Soviet-Afghan War, the fall of Communism, Desert Shield/Storm and the current War on Terror. This counts as an elective course or a social studies course.

# TECHNOLOGY EDUCATION

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## **Fundamentals of Cyber Security**

**1.00 Credit**

Prerequisite: 10th grade

The Fundamentals of Cyber Security course is designed to provide students with a solid foundation in the principles and practices of cybersecurity while integrating biblical perspectives on ethics, stewardship, and personal responsibility. Students will explore key areas of cybersecurity, including network security, ethical hacking, encryption, cyber threats, and risk management. The course aims to develop technical skills in a context that emphasizes integrity, truth, and the responsible use of technology.

Through both theoretical lessons and hands-on projects, students will learn how to protect networks, data, and systems from a variety of digital threats. Additionally, they will engage with real-world scenarios and case studies, applying their knowledge to create safe and secure digital environments. The course also encourages students to reflect on the moral implications of cybersecurity, emphasizing the importance of truth, justice, and respect for others' privacy in a digital world.

## **Intro to Robotics and Control Systems**

**1.00 Credit**

Prerequisite: 10th grade

Students will explore basic development, building, and programming of robots. Students will work hands-on in teams to design, build, and program robots, and document their processes. Topics discussed may include motor controls, gear ratios, torque, friction, sensors, timing, program loops, logic gates, decision-making, timing sequences, propulsion systems, and binary number systems.

## **Fundamentals of Web Page Design and Development**

**1.00 Credit**

Prerequisite: 10th grade

The course will guide students in the development of websites in a project-based, problem-solving environment. Students will learn HTML, CSS, and basic scripting in a language like JavaScript in order to create websites that are well-organized, universally accessible, responsive, and easy to navigate. Students will learn the technological processes, requirements, and legal ramifications for publishing their websites. Students will learn how to create a portfolio of content-rich, well-styled websites. Successful completion of this course will prepare students for industry certifications.

# PHYSICAL EDUCATION

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(All Elective classes are college prep courses and non-academic)

## **Strength and Conditioning**

**0.50 Credit or 1.00 Credit**

Prerequisite: None

The purpose of this course is to provide students with the opportunity for development of strength and conditioning for various sports and fitness related activities. Free weights, various resistance equipment, and conditioning activities will be incorporated to promote improvement in strength, power, endurance, flexibility, speed, and agility. A plan to achieve goals will be developed and implemented during this course. Effort and Attitude for high achievement is a major focus for this class.

Can be taken for one semester (0.50 credit or for two semesters 1.00 credit) This class will earn a high school PE credit.

## **Health & Nutrition**

**0.50 Credit**

Prerequisite: None

Health and Nutrition is a one semester, half-credit course designed to provide students with an understanding of all important physical, mental and social health issues. You will be presented with a moral basis for a healthy lifestyle based upon scriptural principles. Topics such as anatomy, body systems, food choices, exercise, diseases, stress, emergencies, responsibility, and more will be addressed from a Christian worldview.

## **Physical Education**

**1.00 Credit**

Prerequisite: 9th grade

The purpose of this course is to learn and to develop skills and concepts from various sports and fitness activities. Students will be introduced to the concepts and skills of sports which will then be applied to live competition games and tournaments. This class will earn a high school PE credit.



## **Advanced Athletics**

**0.5 Credit or 1.00 Credit**

Prerequisites:

- Prior experience in competitive athletics, with a focus on commitment to play at the Junior Varsity or Varsity level.
- Coach approval for participation in the course.

This semester-long course is designed for experienced high school athletes —boys and girls— who are committed to participating in the Junior Varsity or Varsity basketball teams at Northside Christian Academy. The course focuses on refining advanced skills, deepening game strategy, and cultivating leadership on and off the court. Students will be expected to demonstrate a high level of commitment to both their physical and spiritual growth throughout the season.

The course integrates Christian principles of teamwork, integrity, and excellence, encouraging students to apply their faith in every aspect of the game. Students will be challenged to grow as athletes and as leaders who exemplify Christ-like behavior in all interactions—on the court and within their team dynamics.

In addition to physical training, students will engage in biblical discussions and reflections, focusing on themes such as serving others, perseverance, humility, and the role of sportsmanship in the life of a Christian athlete. The course will also emphasize the importance of maintaining balance between athletics, academics, and faith. This course will earn the mandatory High School Physical Education Credit.

# FINE ARTS

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All elective classes are college prep courses.

## VISUAL ARTS



### **Introduction to Drawing Techniques**

**0.50 Credit**

Prerequisite: None

The Introduction to Drawing Techniques course introduces students to the foundational skills and principles of drawing. Through a variety of projects, students will explore essential techniques including line drawing, shading, perspective, and texture. This course is designed for beginners, providing a supportive environment for students to develop their technical skills and personal artistic expression. Throughout the semester, students will practice drawing from observation, still life, and photographs, while learning the importance of proportion, composition, and the use of light and shadow. Emphasis will be placed on creating accurate and expressive drawings, experimenting with different media such as graphite, charcoal, and ink, and gaining confidence in each student's individual style. By the end of the course, students will have a strong understanding of basic drawing techniques and will have created a portfolio of their work showcasing their growth as artists. Whether students are looking to pursue further art studies or simply enjoy the creative process, this course provides a solid foundation in the art of drawing.

### **Introduction to Painting**

**0.50 Credit**

Prerequisite: None

The Introductory Painting course is designed to introduce students to the fundamental techniques, materials, and concepts of painting. This semester-long course will focus on exploring various painting mediums such as acrylics, watercolors, and tempera, offering students the opportunity to experiment with color, texture, and composition while learning the basics of brushwork and surface preparation. Students will begin by understanding the tools and materials used in painting, followed by lessons on color theory, blending, and layering. Through hands-on projects, students will develop their skills in creating both abstract and representational artwork. Emphasis will be placed on developing a strong understanding of painting fundamentals, fostering creativity, and building students' confidence in using paint as a form of self-expression. By the end of the course, students will have gained proficiency in basic painting techniques, completed several projects, and developed a personal style that reflects their artistic growth. Whether students are new to painting or have some experience, this course provides a solid foundation for anyone looking to expand their skills and knowledge in the world of visual art.

## **FINE ARTS**

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### **3-D Art: Ceramics, Pottery, and Sculpture**

**0.50 Credit**

Prerequisite: None

In this hands-on and dynamic course, students will explore the world of three-dimensional art through the creation of ceramics and sculpture. Designed for high school students with an interest in expanding their artistic skills, this course will cover essential techniques such as hand-building, wheel throwing, and sculpting with clay. Students will learn the kiln process, glazing and underglazing, and carving. Students will develop both technical proficiency and creative expression as they learn to manipulate different media to create functional and abstract works of art. The course will guide students through the entire process, from concept development and sketching to the final presentation of their sculptures and ceramic pieces. Throughout the year, students will experiment with glazing, firing, and surface treatment techniques, as well as explore sculpture styles ranging from realistic to abstract. Emphasis will be placed on understanding form, texture, and space, as well as fostering individuality and artistic voice. Additionally, students will engage in critique and reflection, learning to communicate their ideas and appreciate the work of others. By the end of the course, students will have built a portfolio of original 3D ceramic and sculptural works, developing not only technical skills but also an understanding of the artistic process. Whether students are looking to pursue further education in the arts or simply wish to express themselves through creative media, this course offers a solid foundation in the world of three-dimensional art. There is a \$35 supply fee.

### **Yearbook**

**1.00 Credit**

Prerequisite: Recommendation from English Teacher

This class will develop the knowledge, skills, and dispositions it will take to produce an excellent yearbook. Students will learn and develop skills in graphic and layout design, writing, proofreading, photojournalism, computer, advertising design, and ad sales. Students will learn and demonstrate the values of diligence, responsibility, accountability, commitment, working with deadlines, and teamwork in producing a quality yearbook. Students will learn how to bring glory to Jesus through using and refining the interests and abilities that God has given them.

### **Graphic Design**

**1.00 Credit**

Prerequisite: None

Students will first learn basic color theory and color schemes in conjunction with the elements and principles of design. Once an understanding of these basics is complete, students will begin learning the mechanics of the programs Photoshop and Illustrator. Students will then explore specific design and creative practices in the digital art and design world.

# LITERARY ARTS



### **Creative Writing**

**0.5 Credit**

Prerequisite: None

Creative writing is a course that is designed to give the student the opportunity to think and write creatively. At its best, writing has the power to explain, heal, excite, encourage, inspire, and make the world a better place. With this in mind, students will experiment with using the written word through a guided exploration of the writing process, journal writing, poetry, graphic novels, storytelling, and nonfiction writing. Most importantly, this class will support students as they hone their skills as a poet, storyteller, author, or whatever path they choose as a writer. This course is a fine arts elective.

### **Journalism**

**0.5 Credit**

Prerequisite: None

Journalism is the ideal place for students interested in print, broadcast, media production, and photojournalism. While creating original pieces, students in this course will be given the opportunity to use a variety of writing techniques and structures. Students will also experiment with computer generated layouts and graphic design. Any student looking for a supportive environment, to explore and share their interests, will thrive in this course. This course is a fine arts elective.

### **Public Speaking/ Debate**

**0.5 Credit**

Prerequisite: None

Debate is designed to develop a student's ability to support and present logical, researched arguments. Students will learn the standards of debate and practice structured impromptu and extemporaneous speeches with emphasis on verbal and nonverbal delivery skills (organization, projection, inflection, eye-contact, hand gestures, and more). Debate is designed to develop a student's ability to support and present logical, researched arguments. Students will learn the standards of debate and valuable skills in order to defend their faith. This course is a fine arts elective.

# FINE ARTS

## PERFORMING ARTS



### Choir

**1.00 Credit**

Prerequisite: None

Choir is for male and female singers of grades 9-12. Students will learn breathing techniques, ear training, reading music, and many other skills essential for young singers. They will also learn how to work as a team to achieve harmony, unity of sound, and a family atmosphere. Choir will perform at various events and will be required to order the appropriate attire. Choir elective may be taken by returning choir members and new singers. Personal practice is expected as well as occasional after school rehearsals and performances.

### Worship Arts Honors

**0.50 Credit**

Prerequisite: teacher recommendation and application

Worship Arts is an advanced class for male and female students who desire to pursue corporate praise leadership. This course is available to singers and instrumentalists, as well as those skilled or interested in learning the technology used to produce a worship service, and who feel called by the Lord. In Worship Arts, students will learn multiple songs on a weekly basis for the purpose of leading chapel services. Students may be rotated in and out for chapel performances. Personal practice is expected from everyone. Students are required to bring their own instruments, excluding a full drum kit. Some outside performances will be required.

### Band

**1.00 Credit**

The Band course immerses students in the art of music through the study and practice of instrumental performance within a band setting. Students will explore various genres, develop technical proficiency on their chosen instruments, and collaborate with peers to create harmonious musical expressions. Emphasis will be placed on musical theory, ensemble dynamics, and individual growth as musicians. Students will have opportunities to showcase their talents through several required performances, fostering a deeper appreciation for the God-given rich tradition of band music. Students must meet the following requirements to participate in the high school band program: successfully complete a middle school band program, be recommended by the director, and demonstrate instrument proficiency.

# CAREER EDUCATION

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## **Career Internship**

**0.50 Credit**

Prerequisite: 12th grade

Career Internship is an elective course that offers a unique opportunity for Northside Christian Academy seniors. Seniors are placed in a private or public work setting where they have a career interest. Students have the opportunity to work side-by-side with professionals in the work force learning the activities and skill sets that are necessary for the specific career, as well as practicing and understanding competencies they will need in order to be successful in the workplace. Students who complete this course will exit knowing:

- The type of post-secondary education/training required in their career field
- Professionally relevant competencies in their specific professional setting
- Workplace professionalism and ethics

Students must apply and be accepted to the Career Exploration Internship program.

Students will be evaluated by the internship mentor. The goals of this experience are:

- Students will be knowledgeable about the world of work, explore career options, and relate personal skills, aptitudes and abilities to future career decisions;
- Students will demonstrate how academic knowledge and skills are applied in the workplace;
- Students will demonstrate the foundation skills and competencies essential for success in the workplace.

## **Teacher's Aide (T.A.)**

**0.50 Credit**

Prerequisite: 11th or 12th grade

A Teacher's Aide will have the ability to gain an experimental learning opportunity that will further develop mentoring relationships offered as an elective for high school credit. Students must apply and be accepted to the Teacher's Aide program. All 11th and 12th graders must be current on all credits, on track for high school graduation, and maintain a GPA of 3.0 or higher. Students will need to have a strong work ethic in order to meet the needs of the students and teachers. Prior to the beginning of a student aide experience, students must attend an orientation provided by the school. Students will be evaluated based on work quality, time management, dependability, work ethic, and spiritual influence.

## **Entrepreneurship**

**0.50 Credit**

Prerequisite: None

This class will challenge students who are considering owning their own business, but will also be helpful to those who want to have a future in any field of business. This will be a wide-ranging study and will help students understand that entrepreneurship involves solving problems for consumers. Students will examine what it means to be an entrepreneur, the risks and benefits of it, and common traits of successful entrepreneurs. Students will also learn how to brainstorm, research, develop, market, launch, and manage a business. Topics will also cover legal/regulatory and financial issues. The course will be project-based and will also include guest lectures from several local business people. Throughout the course students will work in teams to effectively start a mock business. Students will study the lives and careers of famous historical American entrepreneurs. We will also reinforce a biblical worldview by utilizing many biblical proverbs and discussing what it means to be an authentic Christian business person in a fallen and often treacherous world.

## CAREER EDUCATION

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### Personal Finance

0.50 Credit

Prerequisite: none

Foundations in Personal Finance is a one- semester course that meets students where they are in life so they can start making good money management decisions from day one. This course by Dave Ramsey and his daughter, Rachel, cover things like saving and budgeting for things like a first car and college, to the fun aspects of investing.

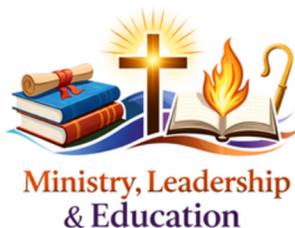
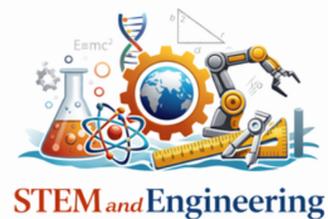
Students will also learn about resume building, career options, negotiation, insurance, and taxes. Lead by an instructor, this course uses video, online blended learning and a workbook. Using God's word and the principals that it teaches about hard work and discipline, this course is designed to make sure students are ready for life after high school. This is an elective course. This is a required elective for all 2027 graduates and beyond.



## Career Pathway Options

**New for 2026-2027! Please view the Career Pathway Options with additional course resources at the end of this packet.**

## Career Track Options



# DUAL ENROLLMENT

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Dual Enrollment allows NCA juniors and seniors to take college-level courses and earn both high school credit toward their diploma and college credit simultaneously. DE classes are either taught at NCA by NCA teachers or taken online, with students receiving a Guided Studies period to complete coursework. Parents are responsible for paying tuition, books, and any additional fees directly to the college.

Requirements:

- Students must be a junior or senior.
- A signed Dual Enrollment agreement must be on file with the NCA Guidance Counselor.
- All courses must be approved by the Guidance Counselor prior to enrollment.
- Students may not take online courses that are offered at NCA.
- Students must meet the college's DE requirements (some require a 3.0 weighted GPA, others a 3.0 unweighted GPA).
- Students must follow all deadlines set by the college or university.
- Students may not withdraw after NCA's 10-day drop/add period; doing so results in a WF (50) on the high school transcript.
- DE courses remain permanently on both high school and college transcripts and count toward both GPAs, potentially affecting scholarships and admissions.

On-Line classes are available through:

- Columbia International University
- LeTourneau University
- Liberty University
- Midlands Technical College
- Cedarville University

On campus classes available:

- English Composition and Research (CIU)
- English Literature and Research (CIU)
- US History (Cedarville)

>See English/Social Studies sections of Course Guide for descriptions.



# ADVANCED PLACEMENT \_\_\_\_\_



Advanced Placement (AP) classes are offered online through NorthStar. This provides opportunities for NCA Juniors and Seniors to take college-level courses and earn concurrent credit toward a high school diploma and ability to exempt a college course with qualifying score. Students will have a scheduled class period during the day where they will work on their AP class assignments and will be supervised by an NCA faculty member. Parents are responsible for tuition, books, laptops and other applicable fees including the AP exam fee. The exam will be proctored at NCA. The following criteria must be met for Advanced Placement:

- Students must be a Sophomore, Junior or Senior.
- Students must meet AP requirements determined by NorthStar and NCA.
- Acceptance by NCA Administration for participation.
- A signed student and parent AP agreement allowing NCA the ability to monitor grades.

# AP COURSE OPTIONS

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## AP Art History

Within AP® Art History, students will explore the interconnections between art, culture, and historical context using critical analysis through the critical lenses of artistic expression, cultural awareness, and purpose. Using a defined art historical skill set and reflective learning, students will analyze relationships across cultures with a global lens. The examination of how people have responded to and communicated their experiences through art will enable students to think conceptually about art ranging from prehistoric to contemporary. Students will be active participants, engaging with art and its context as they read, research, and collaborate to learn about art, artists, art making, and responses to and interpretations of art. This course is based on the Course and Exam Description or CED from the College Board. The AP® Art History course emulates the college experience and includes mature content.

## AP Calculus AB

Prerequisites: Pre calculus Honors

In this AP® course, students will build on previous mathematical knowledge to explore two main problems. In the first problem, students will investigate the tangent line problem using limits to discover and use differentiation. In the second problem, students will investigate the area under the curve problem which leads to applications with integration. Throughout the course, the students will analyze functions and interpret rates of change in real-world contexts. They will implement various mathematical processes as well as how to justify their solutions. The students will also practice communicating their learning by using proper notation and making connections between different representations of a function. At the end of the course, the student will demonstrate their understanding of the concepts as well as their problem-solving skills by taking the AP® exam.

## AP Calculus BC

Prerequisites: PreCalculus Honors (MATH450) or equivalent with a strong A if student has not previously taken AP Calculus AB.

AP Calculus is primarily concerned with developing the students' understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed geometrically, numerically, analytically, and verbally. The connections among these representations also are important. (The College Board – AP Calculus Teacher's Guide)

Advanced Placement Calculus BC covers all topics of calculus of functions of a single variable as described in the AP Calculus BC topic outline in the AP® Calculus Course Description. Major topics covered include Functions; Limits; Derivatives; Applications of Derivatives; Definite Integrals; Differential Equations; Mathematical Modeling; Applications of Definite Integrals; Parametric, Vector, and Polar Functions; Sequences; and Series (including the Taylor and Maclaurin series). Designed to develop the student's understanding of the concepts covered in the first two semesters of college level calculus and to provide the student with multiple experiences in the methods and applications of those concepts, the Rule of Four is stressed throughout the course. Students are trained to express all solutions geometrically, numerically, analytically, and to interpret these findings verbally. Technology and graphing calculators are used extensively in this course to reinforce the concepts covered. All students must possess a TI-83, TI-84, or TI-89 graphing calculator.

## AP COURSE OPTIONS

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### **AP Statistics**

Prerequisites: Algebra 2

In this course, students will be introduced to the important concepts and tools used by statisticians for collecting, analyzing, and drawing conclusions from data. The four main themes covered in this course and on the AP® exam are as follows: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. In this course, students will learn to read and interpret computer-generated statistical output as well as how to perform all of the statistical calculations on their TI-84 CE graphing calculator.

### **AP Biology**

Prerequisites: A grade of an 85% or higher in the subject area course taken the previous year

This advanced biology course focuses on the College Board's 4 Big Ideas of biology: change over time, energy, systems interactions, and information. Students in 11th or 12th grade who have already completed a year of biology and chemistry in high school will be well prepared to succeed in this course. While content development is crucial, students will also be required to develop critical thinking and science practice skills in conjunction with building their knowledge of structures and functions of living things. Students will explore and analyze topics through the use of models, scientific experimentation, statistical and data analysis, graphical representations, and argumentation from evidence. Videos and computer interactives are key components of the content of this course. Students are required to complete both virtual and hands-on lab work, though no special laboratory equipment is needed. This course is meant to prepare students for successful completion of the AP Biology Exam.

### **AP Chemistry**

Prerequisites: Algebra 2 and a grade of 85% or higher in the subject course taken the previous year.

This course is designed to prepare students to successfully take the advanced placement exam in chemistry. Topics introduced in CHEM300 and CHEM350 are explored in more depth and detail. The course utilizes hands-on labs, computer simulations, and lab videos to give students important laboratory experience. Videos and computer simulations are also used extensively as an aid in teaching chemistry concepts. This course, in combination with a course like CHEM300 or CHEM350, is the equivalent of a first year college chemistry course. Students taking the course should expect a challenging and rigorous academic experience.

### **AP Physics C: Mechanics**

Prerequisites: Calculus is a required prerequisite or corequisite in order to take this course.

This is a calculus-based physics course designed to successfully prepare students for the AP® exam. Students will develop their investigative skills through hands-on labs, simulations and engineering projects. Students will also connect what they are learning to the world around them and engage with their peers on discussion boards. Students will demonstrate their problem solving skills through AP® practice problems, reflections, videos and tests.

## **AP COURSE OPTIONS**

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### **AP Computer Science A**

This course teaches programming in JAVA, while preparing the student for the Advanced Placement® exam. The course looks at Object-Oriented Programming principles using the Java language. Topics covered include computer logic, programming strategies, algorithms, and code development.

### **AP Computer Science Principles**

This course introduces the foundations of modern computing, while preparing the student for the Advanced Placement® Computer Science Principles exam. The course looks at a broad range of foundational topics including programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing.

### **AP Literature and Composition**

Prerequisites: English 1 and English 2, honors recommended. A grade of an 85% or higher in the subject area course taken the previous year. \*When taking AP Language and Composition (ENGL510) and AP Literature and Composition (ENGL500) in succession, it is recommended to take AP Language and Composition first.

AP® English Lit is designed to prepare students for success on the Advanced Placement English Literature and Composition exam and in continuing university level studies in Literature and Composition. The course is designed to challenge students through spirals of literature study that increase in complexity. Students who perform well in the course will demonstrate a strong curiosity regarding the tools and resources of language in literature and enthusiastically engage in meaningful analysis of poetry, short fiction, novels, and drama.

### **AP Language and Composition**

Prerequisites: English 1 and English 2, honors recommended. A grade of an 85% or higher in the subject area course taken the previous year. \*When taking AP Language and Composition (ENGL510) and AP Literature and Composition (ENGL500) in succession, it is recommended to take AP Language and Composition first.

AP® Language and Composition is designed to strengthen each student's writing abilities to analytical and persuasive depths. Students will be studying various genres of literature and writing and responding in formal, analytical essays. These essays will demonstrate the student's knowledge and understanding of rhetorical appeals as well as persuasive techniques present within the author's writing. This class will help prepare the student to take the AP® exam in Language and Composition at the end of the school year, but the class will not "teach to the test." Journalistic pieces and classic literature will be studied with deeper analytical approaches than those in other language arts classes. Students will learn how to provide evidence of rhetorical appeals and persuasion within their formal essays, by designing various formal responses.

## AP COURSE OPTIONS

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### AP Physics I

Prerequisites: Algebra 2 is required. A grade of an 85% or higher in the science course taken the previous year. Physics is an applied mathematics course. The Algebra 2 pre-requisite for this course is essential. PreCalculus Honors is highly suggested as a pre/co-requisite. No prior course work in physics is required.

AP® Physics I is an algebra-based physics course designed to successfully prepare students for the AP® Physics exam. Students will develop their investigative skills through hands-on labs, simulations, and design projects. Through self-evaluation and reflection, students will explain how their work and thinking aligns with the objectives in the lessons. Students will connect with their peers through discussion boards and Teams and be a part of our class community. Students will also demonstrate their problem solving skills through AP® practice problems, reflections, activities and tests.

### AP Environmental Science

Prerequisites: A grade of 85% or higher in the course taken the previous year.

God gave man dominion over the earth (Genesis 1:26-28) and He calls us to be good stewards over that which He gave us claim to. For this reason, it is important for students to discover the state of Earth's systems and the consequences that our human activities have on those systems. AP® Environmental Science provides students with a global view of their world and their role in it. Designed to be the equivalent of a one-semester, introductory college course in environmental science, students will engage with the scientific principles, concepts, and methodologies required to understand the interrelationships between ocean, land, and atmosphere that guide the natural world and allow Earth to be a planet suitable for life. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them, determining their own ecological footprint in the world to discover how their activities affect the world around them. Laboratory activities within the course support learning of these relationships through reflective, hands-on, or virtual experiences. Students evaluate the relative risks associated with environmental problems and examine alternative solutions including clean energy, sustainable practices, and conservation, for resolving or preventing future environmental problems. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. This course has a lab component.

### AP Microeconomics

Semester course, .5 credit

Prerequisite: Algebra 1, a grade of 85% or higher in previous course

This course gives students an understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and the role of governments in promoting greater efficiency and equity. Learning will be applied and evaluated through a wide range of mediums including activity labs, tests, quizzes, multimedia, texts, charts, graphs, research projects, participation, and life skills. This course will prepare students to successfully complete the AP® Microeconomics exam offered each May.

## AP COURSE OPTIONS

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### **AP Macroeconomics**

Semester course, .5 credit

Prerequisite: Algebra I, a grade of 85% or higher in previous course

AP® Macroeconomics is a college level course with a focus on the aggregate (whole) economy. Students will learn economic theory concepts such as supply and demand, stabilization policies, and exchange rate theory. Students will demonstrate their understanding of these concepts through graphing, analysis, and problem solving. Students enrolled in this course will be eligible to take the AP® Macroeconomics test sponsored by the College Board in the spring. Basic mathematical calculations and functions are required for success in this course.

### **AP Human Geography**

Prerequisite: A grade of 85% or higher in previous course

In this course students will learn how to use and interpret maps, data sets, and geographic models (GIS, aerial photographs, and satellite images). Students will investigate spatial relationships at different scales ranging from the local to the global. Students will apply knowledge to the use of spatial concepts and landscape analysis to examine human organization of space. Students will analyze the relationships between the Nature of and Perspectives on Geography, Population, Cultural Patterns and Processes, Political Organization of Space, Agricultural and Rural Land Use, Industrialization and Economic Development, and Cities and Urban Land Use.

### **AP US Government and Politics**

Semester course, .5 credit

Prerequisite: A grade of 85% or higher in previous course

AP® US Government and Politics includes a brief comparative study of government, and then an in-depth study of American government on the federal, state, and local levels. This includes its complex interworking, checks and balances, political responsibilities, structures, functions, and authority. This course will give students an analytical perspective on government and politics in both the United States and around the world. Students will learn of God's sovereignty in all forms of government, their responsibilities, how to practically evaluate political issues, and how to influence one's own government. This course is also designed to prepare students to successfully complete the AP® US Government & Politics exam offered each May.

### **AP Psychology**

Prerequisite: A grade of 85% or higher in previous course

AP® Psychology is an introductory college-level psychology course. Students cultivate their understanding of the systematic and scientific study of human behavior and mental processes through inquiry-based investigations as they explore concepts like the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout these units, a Biblical framework is used to understand human behavior and thinking.

## **AP COURSE OPTIONS**

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### **AP European History**

Prerequisite: A grade of 85% or higher in previous course

AP® European History is a college-level course covering the development of the modern world from approximately 1350 to the present day. Students develop and use the same skills and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change. Students will focus on historical themes to include: political, economic, cultural, social, technological, and intellectual institutions and their development. Students will develop an ability to analyze historical evidence through both primary and secondary sources which include maps, graphs, and artistic expression alongside written sources. Students will also develop an ability to analyze and express historical understanding in writing using the skills of sourcing, claims, and evidence, contextualization, complexity/making connections, and argumentation. While using a variety of sources, this course will emphasize reading comprehension, writing, research, and analytical skills through the lens of the Biblical worldview. This course is taught at the college level and is designed to prepare students to successfully complete the AP® European History Exam. AP® students will work closely with the teacher to improve their skills and to review their progress in preparing for this exam

### **AP World History Modern**

Prerequisite: A grade of 85% or higher in previous course

AP® World History Modern is a college-level course covering the period of history from the year 1200 to the present day. The areas of concentration include diplomatic, political, social, and economic history coupled with a study of cultural and intellectual institutions and their development. Students will develop an understanding of the trends and themes of history through the lens of the biblical worldview, an ability to analyze historical evidence, and express historical understanding in writing. This course is taught at the college level, and it is designed not only to prepare students to successfully complete the AP® World History Exam, but also to develop the student's reading comprehension, writing, research, and analytical skills needed at the college level.

### **AP US History**

Prerequisite: A grade of 85% or higher in previous course

AP® United States History is a college-level course covering the period of history from early exploration of North America to the present day. This course covers a chronological history of the United States using a variety of sources including primary sources, maps, articles, and a basic text used for background information. The course will cover the major currents of political, social, intellectual, economic, and diplomatic history, as well as familiarize the student with the geographical development and expansion of the United States. A major goal is to develop analytical and interpretive skills through the lens of the Biblical worldview. Particular emphasis is placed on training students to excel in the skills of critical reading and writing, as well as critical interpretation of arguments. Students will investigate people, places, worldviews and events that have most influenced U.S. history. This course is taught at the college level and is also designed to prepare students to successfully complete the AP® US History Exam. Students will work with the instructor to review their progress in preparing for this exam.

# GRADUATION CHECKLIST

## ENGLISH 4 CREDITS REQUIRED

- ENGLISH I  CP  HONORS  
ENGLISH II  CP  HONORS  
ENGLISH III  CP  HONORS  
ENGLISH IV  CP  HONORS

AP CREDIT: \_\_\_\_\_

DE CREDIT: \_\_\_\_\_

## FOREIGN LANGUAGE 2 CREDITS REQUIRED

- SPANISH I  CP  
SPANISH II  CP  HONORS  
SPANISH III  HONORS  
ASL I  CP  
ASL II  CP  
ASL III  CP

## MATH 4 CREDITS REQUIRED

- ALGEBRA I  CP  HONORS  
ALGEBRA II  CP  HONORS  
GEOMETRY  CP  HONORS  
ALGEBRA III  CP  
PRE-CALCULUS  HONORS  
CALCULUS  HONORS

AP CREDIT: \_\_\_\_\_

DE CREDIT: \_\_\_\_\_

## SCIENCE 3 CREDITS REQUIRED

- BIOLOGY I  CP  HONORS  
CHEMISTRY I  CP  HONORS  
CHEMISTRY II  CP  HONORS  
PHYSICS  CP  HONORS  
ANATOMY & PHYSIOLOGY  CP  HONORS

AP CREDIT: \_\_\_\_\_

DE CREDIT: \_\_\_\_\_

## SOCIAL STUDIES 3 CREDITS REQUIRED

- WORLD HISTORY  CP  
COLD WAR HIST. (.5)  CP  
HIST. OF HOLOCAUST (.5)  CP  
US HISTORY  CP  
AMERICAN GOV. (.5)  CP  
ECONOMICS. (.5)  CP

AP CREDIT: \_\_\_\_\_

DE CREDIT: \_\_\_\_\_

## BIBLE 4 CREDITS REQUIRED/ONE PER YEAR AT NCA

- 9TH  10TH  11TH  12TH

## TECHNOLOGY 1 CREDIT REQUIRED

- INTRO TO ROBOTICS AND CONTROL SYSTEMS  
 FUNDAMENTALS OF WEB DESIGN AND DEVELOPMENT  
 FUNDAMENTALS OF CYBER SECURITY  
 AP CREDIT: \_\_\_\_\_  
 DE CREDIT: \_\_\_\_\_

## PHYSICAL EDUCATION 1 CREDIT REQUIRED

- PE. 1.00 CREDIT  
 STRENGTH & CONDITIONING (CP) 0.50 EACH

## FINE ARTS 1 CREDIT REQUIRED

- CHOIR  INTRO. TO DRAWING .5  
 WORSHIP ARTS .5  INTRO TO PAINTING .5  
 BAND  3D ART: CEREMICS .5  
 JOURNALISM .5  YEARBOOK  
 PUBLIC SPEAKING .5  GRAPHIC DESIGN  
 CREATIVE WRITING .5

## OTHER 2 CREDIT REQUIRED

- TEACHER'S AIDE (CP). .5 CREDIT  
 INTERNSHIP (CP). .5 CREDIT  
 PERSONAL FINANCE\* (CP) .5 CREDIT  
 ENVIRONMENTAL SCIENCE. (CP) .5 CREDIT  
 MARINE BIOLOGY (CP) .5 CREDIT  
 COLD WAR HISTORY (CP) .5 CREDIT  
 HIST. OF THE HOLOCAUST. (CP) .5 CREDIT  
 INTRO TO ENGINEERING. (CP) .5 CREDIT  
 ENTREPRENEURSHIP. (CP) .5 CREDIT  
 HEALTH & NUTRITION (CP) .5 CREDIT  
 AP CREDIT \_\_\_\_\_  
 DE CREDIT \_\_\_\_\_  
 DE CREDIT \_\_\_\_\_  
 OTHER \_\_\_\_\_  
 OTHER \_\_\_\_\_

\*PERSONAL FINANCE REQUIRED FOR 2027 GRADUATES AND BEYOND



# Career Pathway Options

**New for the 2026-2027 school year!** In addition to meeting state standards, students have the opportunity to take courses that guide them toward a specific **Career Pathway**. These pathways allow students to explore areas that align with their individual interests and potential career goals. Students who complete a designated number of courses within their chosen pathway will receive a Pathway Recognition Cord to wear at graduation. More information on this program will be coming in the fall.



**Health & Medical  
Sciences**



**STEM and Engineering**



**Business, Marketing  
& Communications**



**Ministry, Leadership  
& Education**



**Arts, Worship  
& Creative Expression**



# Health & Medical Sciences



In addition to state standards, students can earn a recognition for completing courses specifically for the Health & Medical Science track.

## On-line Classes

### Suggested Courses

- Psychology
- Human Growth and Development
- Sports Medicine
- Health Science
- Nursing

(SC/Virtual, Northstar, Educere)

## Dual Enrollment

### Suggested Courses

- Medical Terminology
- Intro to Psychology
- Human Growth & Development

Cedarville University,  
LeTourneau University,  
Columbia International University,  
Liberty University

## Elective Options

### Suggested Courses

- Strength & Conditioning (.5)
- Advanced Athletics (For NCA Athletics)
- Forensic Science (.5)
- Health & Nutrition (.5)
- Public Speaking (.5)
- Entrepreneurship (.5)
- Internship

## Extracurricular Opportunities:

- National Honor Society
- Debate Club
- Science Club
- NCA Experience Days
- Service hours in related areas
- Mission Trip with related area



# STEM and Engineering



In addition to state standards, students can earn a recognition for completing courses specifically for the Health & Medical Science track.

## On-line Classes

### Suggested Courses

- Statistics
- Discovering Computer Science
- IT Fundamentals
- Digital Design
- Applications & Modeling, et
- CAD

(SC/Virtual, Northstar, Educere)

## Dual Enrollment

### Suggested Courses

- Intro to Information Tech
- Computer Programming
- Environmental Science

Cedarville University,  
LeTourneau University,  
Columbia International University,  
Liberty University

## Elective Options

### Suggested Courses

- Intro to Engineering (.5)
- Environmental Science (.5)
- Robotics (1.0),
- Cyber Security (1.0)

## Extracurricular Opportunities:

- National Honor Society
- Robotics Club
- Engineering Club
- Science Club
- Chess Club
- SCISA Math Team
- NCA Experience Days
- Service hours in related areas
- Mission Trip with related area



# Business, Marketing & Communications



In addition to state standards, students can earn a recognition for completing courses specifically for the Health & Medical Science track.

## On-line Classes

### Suggested Courses

- Sociology
- IT Fundamentals
- Digital Design
- Applications & Modeling
- Business Law
- Management, etc.

(SC/Virtual, Northstar, Educere)

## Dual Enrollment

### Suggested Courses

- Introduction to Business
- Introduction to Speech
- Principles of Marketing
- Intro to Sports Marketing

Cedarville University,  
LeTourneau University,  
Columbia International University,  
Liberty University

## Elective Options

### Suggested Courses

- Entrepreneurship (.5)
- Marketing (.5)
- Public Speaking & Debate (.5)
- Theatre (.5)
- Graphic Design (1.0)
- Yearbook (1.0)
- Internship

## Extracurricular Opportunities:

- Theater: Fall Plays & Spring Musicals
- FCA
- Debate Club
- Chess Club
- Student Council
- National Honor Society
- SCISA Literary Meet
- NCA Experience Days
- Service hours in related areas
- Mission Trip with related area



# Ministry, Leadership & Education



In addition to state standards, students can earn a recognition for completing courses specifically for the Health & Medical Science track.

## On-line Classes

### Suggested Courses

- Sociology
- World Religions
- Theology
- Old Testament Survey
- New Testament Survey

(SC/Virtual, Northstar, Educere)

## Dual Enrollment

### Suggested Courses

- Old Testament Survey
- New Testament Survey
- Biblical Literature
- Introduction to Psychology
- Introduction to Philosophy
- Introduction to Speech

Cedarville University,  
LeTourneau University,  
Columbia International University,  
Liberty University

## Elective Options

### Suggested Courses

- Entrepreneurship (.5)
- Marketing (.5)
- Public Speaking & Debate (.5)
- Theatre (.5)
- Graphic Design (1.0)
- Yearbook (1.0)
- Teacher's Assistant

## Extracurricular Opportunities:

- Bible Studies
- Theater: Fall Plays & Spring Musicals
- FCA
- Reading Club
- Debate Club, Chess Club
- Student Council
- National Honor Society
- SCISA Literary Meet
- NCA Experience Days
- Service hours in related areas
- Mission Trip with related area



# Arts, Worship & Creative Expression



In addition to state standards, students can earn a recognition for completing courses specifically for the Health & Medical Science track.

## On-line Classes

### Suggested Courses

- Art History
- Interior Design
- Digital Media
- Music Appreciation

(SC/Virtual, Northstar, Educere)

## Dual Enrollment

### Suggested Courses

- Music Appreciation
- Introduction to Speech
- Introduction to Philosophy
- Public Speaking

Cedarville University,  
LeTourneau University,  
Columbia International University,  
Liberty University

## Elective Options

### Suggested Courses

- Creative Writing (.5)
- Public Speaking & Debate (.5)
- Theatre (.5)
- Choir (1.0)
- Band (1.0)
- Worship Arts (.5)
- 3-D Art (.5)
- Introduction to Painting (.5)
- Introduction to Drawing (.5)
- Graphic Arts (1.0)
- Yearbook (1.0)

## Extracurricular Opportunities:

- Theater: Fall Plays & Spring Musicals
- FCA
- Debate Club
- Chess Club
- Student Council
- National Honor Society
- SCISA Literary Meet
- NCA Experience Days
- Service hours in related areas
- Mission Trip with related area